

Farzad Noubary, PhD

Associate Clinical Professor
Northeastern University
Bouvé College of Health Sciences
f.noubary@northeastern.edu

EDUCATION

Undergraduate

BS, Mathematics The Pennsylvania State University

Graduate School

AM, Biostatistics Harvard University

PhD, Biostatistics Harvard University

ACADEMIC APPOINTMENTS

*March 2013-August 2018 Assistant Professor Tufts University School of Medicine
& Sackler School of Graduate
Biomedical Sciences*

*August 2018-Present Associate Clinical Professor
Northeastern University Bouvé
College of Health Sciences*

HOSPITAL APPOINTMENTS

*July 2010-February 2013 Biostatistician Department of General Medicine,
Massachusetts General Hospital*

*March 2013-August 2018 Special and Scientific Staff
Tufts Medical Center*

AWARDS AND HONORS

*2000-2004 Academic Excellence Scholarship, Schreyer Honors
College, The Pennsylvania State University*

*2002 Evan Johnson Memorial Award, Department of
Mathematics, The Pennsylvania State University*

*2002 Minority International Research Training Grant, Fogarty
International Center, NIH & Medical Research Council of
South Africa, Cape Town, South Africa*

*2003 AIDS Minority Training Grant, Fogarty International
Center, NIH & Programa de Computacao Cientifica,
Fundacao Instituto Oswaldo Cruz, Rio de Janeiro, Brazil*

2004	<i>Minority International Research Training Grant, Fogarty International Center, NIH & The World Health Organization, Geneva, Switzerland</i>
2004-2009	<i>Predoctoral Training Grant in HIV/AIDS, Department of Biostatistics, Harvard University</i>
2011	<i>Partners in Excellence Award, Massachusetts General Hospital</i>
2015	<i>Distinguished Speaker Award, Principles and Practice of Clinical Research, Harvard Medical School</i>

TRAINING OF GRADUATE STUDENTS

a) Master's students

1. Katherine H. Michener, MD (2014)
Thesis: Aortic Stiffness and its Relationship to Kidney Disease, Brain Structure, and Cognition
Role: Statistical Mentor
2. Rajaa Nahra, MD (2014)
Thesis: Associations Between Bone Density and Body Composition in Persons Living with HIV
Role: Statistical Mentor
3. Jenica Upshaw, MD (2015)
Thesis: A Multi-state Model to Predict Heart Failure Hospitalizations and All-cause Mortality in Outpatients with Heart Failure with Reduced Ejection Fraction
Role: Statistical Mentor
4. Osama Amro, MD (2015)
Thesis: Low Osmolar Diet and Adjusted Water Intake for Vasopressin Suppression in ADPKD: A Randomized Controlled Trial
Role: Statistical Mentor
5. Jonathan Babyak, DVM (2016)
Thesis: Hydroxyethyl Starch and the Risk of Acute Kidney Injury in Dogs
Role: Statistical Mentor
6. Robert Blanton, MD (2016)
Thesis: A Molecular Screen to Identify Novel Myocardial Therapeutic Targets for Human Heart Failure
Role: Statistical Mentor
7. Deborah Linder, DVM (2016)
Thesis: Association Between Pet Ownership, Animal Attachment, and Overweight Status in Children: An Exploratory Study
Role: Thesis Chair

8. Nelya Melnitchouk, MD (2016)
Thesis: Colorectal Cancer in Ukraine: Trends for the Last 14 Years
Role: Statistical Mentor
9. Marzieh Mirhashemi, PhD (2016)
Thesis: Transcriptome Analysis of *Cryptosporidium parvum*
Role: Thesis Chair
10. Jinghui Dong, PhD (2017)
Thesis: Timeliness of Treatment in Newly Diagnosed Breast Cancer Patients
Role: Statistical Mentor
11. Min Han, PharmD (2017)
Thesis: Comparative Effectiveness and Toxicity of Oral Antibiotics for Early Lyme Disease Associated with Erythema Migrans: A Systematic Review and Network Meta-Analysis
Role: Statistical Mentor
12. Elizabeth Schoenfeld, MD (2017)
Thesis: Physicians' Perspectives Regarding the Use of Shared Decision-Making in the Emergency Department
Role: Statistical Mentor
13. Alexa Craig, MD (2018)
Thesis: Delayed Rewarming for Neuroprotection in Infants Following Cardiopulmonary Bypass Surgery: A Pilot Study
Role: Statistical Mentor
14. Kimberly Esham, MD (2018)
Thesis: Assessment of Patient-Reported Health-Related Quality of Life among Hospitalized Adults with Sickle Cell Disease
Role: Statistical Mentor
15. Teresa May, MD (2018)
Thesis: Variation in Sedation and Neuromuscular Blockade Regimens on Outcome After Cardiac Arrest

Role: Statistical Mentor

b) Doctoral students

1. Sowmy Thuppal, MD, PhD (2015)
Thesis: Treatment of Human Immunodeficiency Virus with Zidovudine and Tenofovir Regimen in India: A Comparative Effectiveness Study
Role: Statistical Mentor

PROFESSIONAL SOCIETIES

2007-Present

Member, American Statistical Association

2010-Present

Member, International AIDS Society

EDITORIAL BOARDS AND ACTIVITY

Statistical Editor

Clinical Infectious Diseases

Editor

Statistical Communications in Infectious Diseases

Reviewer

Journal of the American Statistical Association

BIBLIOGRAPHY

a) *Refereed (i.e., peer-reviewed) papers*

- Reddy, K. P., Schwamm, E., Kalkhoran, S., Noubary, F., Walensky, R. P., & Rigotti, N. A. (2021). Respiratory Symptom Incidence among People Using Electronic Cigarettes, Combustible Tobacco, or Both. *Am J Respir Crit Care Med*, 204(2), 231-234. <https://doi.org/10.1164/rccm.202012-4441LE>
- Welch, L. C., Tomoaia-Cotisel, A., Noubary, F., Chang, H., Mendel, P., Parajulee, A., Fenwood-Hughes, M., Etchegaray, J. M., Qureshi, N., Chandler, R., & Selker, H. P. (2020). Evaluation of initial progress to implement Common Metrics across the NIH Clinical and Translational Science Awards (CTSA) Consortium. *J Clin Transl Sci*, 5(1), e25. <https://doi.org/10.1017/cts.2020.517>
- Esham, K. S., Rodday, A. M., Smith, H. P., Noubary, F., Weidner, R. A., Buchsbaum, R. J., & Parsons, S. K. (2020). Assessment of health-related quality of life among adults hospitalized with sickle cell disease vaso-occlusive crisis. *Blood Adv*, 4(1), 19-27. <https://doi.org/10.1182/bloodadvances.2019000128>
- Dong, J., Esham, K. S., Boehm, L., Karim, S. A., Lin, M., Mao, D., Wang, F., Fein, D., Wang, H., Studenmund, C., Weidner, R. A., Noubary, F., Freund, K. M., Erban, J. K., & Parsons, S. K. (2020). Timeliness of Treatment Initiation in Newly Diagnosed Patients With Breast Cancer. *Clin Breast Cancer*, 20(1), e27-e35. <https://doi.org/10.1016/j.clbc.2019.06.009>
- Daudelin, D. H., Peterson, L. E., Welch, L. C., Chandler, R., Pandey, M., Noubary, F., Lee, P. L., & Selker, H. P. (2020). Implementing Common Metrics across the NIH Clinical and Translational Science Awards (CTSA) consortium. *J Clin Transl Sci*, 4(1), 16-21. <https://doi.org/10.1017/cts.2019.425>
- Alon, D., Sousa, C. V., Baranowski, T., Barreira, T. V., Cabrera-Perez, R., Chiu, K., Fernandez, A., Fleischman, A., Huang, S., Hwang, J., Green, M. C., Lee, I. M., Lee, K., Lessard, S., Levitsky, L. L., Misawa, A., Noubary, F., Samuels, R., Sun, K. J., Thompson, D., & Lu, A. S. (2020). The impact of narratives and active video games on long-term moderate-to-vigorous physical activity: A randomized controlled trial protocol. *Contemp Clin Trials*, 96, 106087. <https://doi.org/10.1016/j.cct.2020.106087>
- Koenig, J. B., Cantu, D., Low, C., Sommer, M., Noubary, F., Croker, D., Whalen, M., Kong, D., & Dulla, C. G. (2019). Glycolytic inhibitor 2-deoxyglucose prevents cortical hyperexcitability after traumatic brain injury. *JCI Insight*, 5(11). <https://doi.org/10.1172/jci.insight.126506>
- Hanson, E., Armbruster, M., Lau, L. A., Sommer, M. E., Klaft, Z. J., Swanger, S. A., Traynelis,

- S. F., Moss, S. J., Noubary, F., Chadchankar, J., & Dulla, C. G. (2019). Tonic Activation of GluN2C/GluN2D-Containing NMDA Receptors by Ambient Glutamate Facilitates Cortical Interneuron Maturation. *J Neurosci*, *39*(19), 3611-3626. <https://doi.org/10.1523/jneurosci.1392-18.2019>
- Mirhashemi, M. E., Noubary, F., Chapman-Bonofiglio, S., Tzipori, S., Huggins, G. S., & Widmer, G. (2018). Transcriptome analysis of pig intestinal cell monolayers infected with *Cryptosporidium parvum* asexual stages. *Parasit Vectors*, *11*(1), 176. <https://doi.org/10.1186/s13071-018-2754-3>
- Melnitchouk, N., Soeteman, D. I., Davids, J. S., Fields, A., Cohen, J., Noubary, F., Lukashenko, A., Kolesnik, O. O., & Freund, K. M. (2018). Cost-effectiveness of colorectal cancer screening in Ukraine. *Cost Eff Resour Alloc*, *16*, 20. <https://doi.org/10.1186/s12962-018-0104-0>
- Vani, K., Sompuram, S. R., Schaedle, A. K., Balasubramanian, A., Pilichowska, M., Naber, S., Goldsmith, J. D., Chang, K. G., Noubary, F., & Bogen, S. A. (2017). The Importance of Epitope Density in Selecting a Sensitive Positive IHC Control. *J Histochem Cytochem*, *65*(8), 463-477. <https://doi.org/10.1369/0022155417714208>
- Linder, D. E., Sacheck, J. M., Noubary, F., Nelson, M. E., & Freeman, L. M. (2017). Dog attachment and perceived social support in overweight/obese and healthy weight children. *Prev Med Rep*, *6*, 352-354. <https://doi.org/10.1016/j.pmedr.2017.04.014>
- Levac, D., Glegg, S., Colquhoun, H., Miller, P., & Noubary, F. (2017). Virtual Reality and Active Videogame-Based Practice, Learning Needs, and Preferences: A Cross-Canada Survey of Physical Therapists and Occupational Therapists. *Games Health J*, *6*(4), 217-228. <https://doi.org/10.1089/g4h.2016.0089>
- Lau, L. A., Noubary, F., Wang, D., & Dulla, C. G. (2017). $\alpha 2\delta$ -1 Signaling Drives Cell Death, Synaptogenesis, Circuit Reorganization, and Gabapentin-Mediated Neuroprotection in a Model of Insult-Induced Cortical Malformation. *eNeuro*, *4*(5). <https://doi.org/10.1523/eneuro.0316-17.2017>
- Jin, H., Welzig, C. M., Aronovitz, M., Noubary, F., Blanton, R., Wang, B., Rajab, M., Albano, A., Link, M. S., Noujaim, S. F., Park, H. J., & Galper, J. B. (2017). QRS/T-wave and calcium alternans in a type I diabetic mouse model for spontaneous postmyocardial infarction ventricular tachycardia: A mechanism for the antiarrhythmic effect of statins. *Heart Rhythm*, *14*(9), 1406-1416. <https://doi.org/10.1016/j.hrthm.2017.05.026>
- Babiyak, J. M., Weiner, D. E., Noubary, F., & Sharp, C. R. (2017). Prevalence of Elevated Serum Creatinine Concentration in Dogs Presenting to a Veterinary Academic Medical Center (2010-2014). *J Vet Intern Med*, *31*(6), 1757-1764. <https://doi.org/10.1111/jvim.14823>
- Upshaw, J. N., Konstam, M. A., Klaveren, D., Noubary, F., Huggins, G. S., & Kent, D. M. (2016). Multistate Model to Predict Heart Failure Hospitalizations and All-Cause Mortality in Outpatients With Heart Failure With Reduced Ejection Fraction: Model Derivation and External Validation. *Circ Heart Fail*, *9*(8). <https://doi.org/10.1161/circheartfailure.116.003146>
- Amro, O. W., Paulus, J. K., Noubary, F., & Perrone, R. D. (2016). Low-Osmolar Diet and Adjusted Water Intake for Vasopressin Reduction in Autosomal Dominant Polycystic Kidney Disease: A Pilot Randomized Controlled Trial. *Am J Kidney Dis*, *68*(6), 882-891. <https://doi.org/10.1053/j.ajkd.2016.07.023>
- Thuppal, S. V., Wanke, C. A., Noubary, F., Cohen, J. T., Mwamburi, M., Ooriapdickal, A. C., Muliylil, J., Kang, G., Varghese, G. M., Rupali, P., Karthik, R., Sathasivam, R., Clarence, P., Pulimood, S. A., Peter, D., & George, L. (2015). Toxicity and clinical outcomes in patients with HIV on zidovudine and tenofovir based regimens: a retrospective cohort

- study. *Trans R Soc Trop Med Hyg*, 109(6), 379-385.
<https://doi.org/10.1093/trstmh/trv016>
- Michener, K. H., Mitchell, G. F., Noubary, F., Huang, N., Harris, T., Andresdottir, M. B., Palsson, R., Gudnason, V., & Levey, A. S. (2015). Aortic stiffness and kidney disease in an elderly population. *Am J Nephrol*, 41(4-5), 320-328.
<https://doi.org/10.1159/000431332>
- Jain, S., Rajasingham, R., Noubary, F., Coonahan, E., Schoepflein, R., Baden, R., Curry, M., Afdhal, N., Kumar, S., & Pollock, N. R. (2015). Performance of an Optimized Paper-Based Test for Rapid Visual Measurement of Alanine Aminotransferase (ALT) in Fingerstick and Venipuncture Samples. *PLoS One*, 10(5), e0128118.
<https://doi.org/10.1371/journal.pone.0128118>
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<https://doi.org/10.1053/j.ajkd.2015.03.030>
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<https://doi.org/10.1097/ccm.0000000000000501>
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- Shenoy, E. S., Paras, M. L., Noubary, F., Walensky, R. P., & Hooper, D. C. (2014). Natural history of colonization with methicillin-resistant *Staphylococcus aureus* (MRSA) and vancomycin-resistant *Enterococcus* (VRE): a systematic review. *BMC Infect Dis*, 14, 177. <https://doi.org/10.1186/1471-2334-14-177>
- Shenoy, E. S., Noubary, F., Kim, J., Rosenberg, E. S., Cotter, J. A., Lee, H., Walensky, R. P., & Hooper, D. C. (2014). Concordance of PCR and culture from nasal swabs for detection of methicillin-resistant *Staphylococcus aureus* in a setting of concurrent antistaphylococcal antibiotics. *J Clin Microbiol*, 52(4), 1235-1237. <https://doi.org/10.1128/jcm.02972-13>
- Inker, L. A., Lambers Heerspink, H. J., Mondal, H., Schmid, C. H., Tighiouart, H., Noubary, F., Coresh, J., Greene, T., & Levey, A. S. (2014). GFR decline as an alternative end point to kidney failure in clinical trials: a meta-analysis of treatment effects from 37 randomized trials. *Am J Kidney Dis*, 64(6), 848-859. <https://doi.org/10.1053/j.ajkd.2014.08.017>
- Drain, P. K., Hyle, E. P., Noubary, F., Freedberg, K. A., Wilson, D., Bishai, W. R., Rodriguez, W., & Bassett, I. V. (2014). Diagnostic point-of-care tests in resource-limited settings. *Lancet Infect Dis*, 14(3), 239-249. [https://doi.org/10.1016/s1473-3099\(13\)70250-0](https://doi.org/10.1016/s1473-3099(13)70250-0)
- Cohen, G. M., Drain, P. K., Noubary, F., Cloete, C., & Bassett, I. V. (2014). Diagnostic delays and clinical decision making with centralized Xpert MTB/RIF testing in Durban, South Africa. *J Acquir Immune Defic Syndr*, 67(3), e88-93.
<https://doi.org/10.1097/qai.0000000000000309>
- Bassett, I. V., Govindasamy, D., Erlwanger, A. S., Hyle, E. P., Kranzer, K., van Schaik, N., Noubary, F., Paltiel, A. D., Wood, R., Walensky, R. P., Losina, E., Bekker, L. G., & Freedberg, K. A. (2014). Mobile HIV screening in Cape Town, South Africa: clinical

- impact, cost and cost-effectiveness. *PLoS One*, 9(1), e85197.
<https://doi.org/10.1371/journal.pone.0085197>
- Yazdanpanah, Y., Perelman, J., DiLorenzo, M. A., Alves, J., Barros, H., Mateus, C., Pereira, J., Mansinho, K., Robine, M., Park, J. E., Ross, E. L., Losina, E., Walensky, R. P., Noubary, F., Freedberg, K. A., & Paltiel, A. D. (2013). Routine HIV screening in Portugal: clinical impact and cost-effectiveness. *PLoS One*, 8(12), e84173.
<https://doi.org/10.1371/journal.pone.0084173>
- Walensky, R. P., Ross, E. L., Kumarasamy, N., Wood, R., Noubary, F., Paltiel, A. D., Nakamura, Y. M., Godbole, S. V., Panchia, R., Sanne, I., Weinstein, M. C., Losina, E., Mayer, K. H., Chen, Y. Q., Wang, L., McCauley, M., Gamble, T., Seage, G. R., 3rd, Cohen, M. S., & Freedberg, K. A. (2013). Cost-effectiveness of HIV treatment as prevention in serodiscordant couples. *N Engl J Med*, 369(18), 1715-1725.
<https://doi.org/10.1056/NEJMsa1214720>
- Ramirez-Avila, L., Noubary, F., Pansegrouw, D., Sithole, S., Giddy, J., Losina, E., Walensky, R. P., & Bassett, I. V. (2013). The acceptability and feasibility of routine pediatric HIV testing in an outpatient clinic in Durban, South Africa. *Pediatr Infect Dis J*, 32(12), 1348-1353. <https://doi.org/10.1097/INF.0b013e31829ba34b>
- Pollock, N. R., McGray, S., Colby, D. J., Noubary, F., Nguyen, H., Nguyen, T. A., Khormae, S., Jain, S., Hawkins, K., Kumar, S., Rolland, J. P., Beattie, P. D., Chau, N. V., Quang, V. M., Barfield, C., Tietje, K., Steele, M., & Weigl, B. H. (2013). Field evaluation of a prototype paper-based point-of-care fingerstick transaminase test. *PLoS One*, 8(9), e75616. <https://doi.org/10.1371/journal.pone.0075616>
- Hyle, E. P., Wood, B. R., Backman, E. S., Noubary, F., Hwang, J., Lu, Z., Losina, E., Walensky, R. P., & Gandhi, R. T. (2013). High frequency of hypothalamic-pituitary-adrenal axis dysfunction after local corticosteroid injection in HIV-infected patients on protease inhibitor therapy. *J Acquir Immune Defic Syndr*, 63(5), 602-608.
<https://doi.org/10.1097/QAI.0b013e31829b662b>
- Govindasamy, D., Kranzer, K., van Schaik, N., Noubary, F., Wood, R., Walensky, R. P., Freedberg, K. A., Bassett, I. V., & Bekker, L. G. (2013). Linkage to HIV, TB and non-communicable disease care from a mobile testing unit in Cape Town, South Africa. *PLoS One*, 8(11), e80017. <https://doi.org/10.1371/journal.pone.0080017>
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<https://doi.org/10.1371/journal.pone.0083389>
- Shenoy, E. S., Hsu, H., Noubary, F., Hooper, D. C., & Walensky, R. P. (2012). National survey of infection preventionists: policies for discontinuation of contact precautions for methicillin-resistant *Staphylococcus aureus* and vancomycin-resistant enterococcus. *Infect Control Hosp Epidemiol*, 33(12), 1272-1275. <https://doi.org/10.1086/668427>
- Ramirez-Avila, L., Nixon, K., Noubary, F., Giddy, J., Losina, E., Walensky, R. P., & Bassett, I. V. (2012). Routine HIV testing in adolescents and young adults presenting to an outpatient clinic in Durban, South Africa. *PLoS One*, 7(9), e45507.
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- Andrews, J. R., Noubary, F., Walensky, R. P., Cerda, R., Losina, E., & Horsburgh, C. R. (2012). Risk of progression to active tuberculosis following reinfection with *Mycobacterium tuberculosis*. *Clin Infect Dis*, *54*(6), 784-791. <https://doi.org/10.1093/cid/cir951>
- Andrews, J. R., Lawn, S. D., Rusu, C., Wood, R., Noubary, F., Bender, M. A., Horsburgh, C. R., Losina, E., Freedberg, K. A., & Walensky, R. P. (2012). The cost-effectiveness of routine tuberculosis screening with Xpert MTB/RIF prior to initiation of antiretroviral therapy: a model-based analysis. *Aids*, *26*(8), 987-995. <https://doi.org/10.1097/QAD.0b013e3283522d47>
- Ahonkhai, A. A., Noubary, F., Munro, A., Stark, R., Wilke, M., Freedberg, K. A., Wood, R., & Losina, E. (2012). Not all are lost: interrupted laboratory monitoring, early death, and loss to follow-up (LTFU) in a large South African treatment program. *PLoS One*, *7*(3), e32993. <https://doi.org/10.1371/journal.pone.0032993>
- Walensky, R. P., Paltiel, A. D., Losina, E., Morris, B. L., Scott, C. A., Rhode, E. R., Seage, G. R., & Freedberg, K. A. (2010). Test and treat DC: forecasting the impact of a comprehensive HIV strategy in Washington DC. *Clin Infect Dis*, *51*(4), 392-400. <https://doi.org/10.1086/655130>
- Rydzak, C. E., Cotich, K. L., Sax, P. E., Hsu, H. E., Wang, B., Losina, E., Freedberg, K. A., Weinstein, M. C., & Goldie, S. J. (2010). Assessing the performance of a computer-based policy model of HIV and AIDS. *PLoS One*, *5*(9). <https://doi.org/10.1371/journal.pone.0012647>
- Noubary, F., & Hughes, M. D. (2010). Assessing agreement in the timing of treatment initiation determined by repeated measurements of novel versus gold standard technologies with application to the monitoring of CD4 counts in HIV-infected patients. *Stat Med*, *29*(18), 1932-1946. <https://doi.org/10.1002/sim.3955>
- Fay, M. P., Noubary, F., & Saul, A. (2009). Robust Non-inferiority Tests for Potency of a Test Drug Against a Reference Drug: (To appear in *Statistics in Biopharmaceutical Research*). *Stat Biopharm Res*, *1*(3), 291-300. <https://doi.org/10.1198/sbr.2009.0023>
- King, G., Polednak, A., Fagan, P., Gilreath, T., Humphrey, E., Fernander, A., Bendel, R., & Noubary, F. (2006). Heterogeneity in the smoking behavior of African American women. *Am J Health Behav*, *30*(3), 237-246. <https://doi.org/10.5555/ajhb.2006.30.3.237>
- King, G., Guilbert, P., Ward, D. G., Arwidson, P., & Noubary, F. (2006). Correlates of sexual abuse and smoking among French adults. *Child Abuse Negl*, *30*(6), 709-723. <https://doi.org/10.1016/j.chiabu.2006.02.011>
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- King, G., Mallett, R. K., Bendel, R. L., Noubary, F., & Nahata, S. (2004). The Master Settlement Agreement and African Americans: opinions about the allocation of resources. *Health Promot Pract*, *5*(3 Suppl), 135s-142s. <https://doi.org/10.1177/1524839904264621>
- King, G., Flisher, A. J., Noubary, F., Reece, R., Marais, A., & Lombard, C. (2004). Substance abuse and behavioral correlates of sexual assault among South African adolescents. *Child Abuse Negl*, *28*(6), 683-696. <https://doi.org/10.1016/j.chiabu.2003.12.003>

b) Other papers presenting primary data

1. Kane, N., Petito, J., **Noubary, F.** Evaluating the utility of quarterly financial reports of hospitals. Report commissioned by the Massachusetts Division of Health Care Finance and Policy. 2008.

g) Theses

1. Noubary, F. Analysis of Exceedances in Sports. Undergraduate Thesis. Schreyer Honors College, The Pennsylvania State University. 2004.
2. Noubary, F. Statistical methods for evaluating novel CD4 enumeration technologies. Doctoral Thesis. Harvard University. 2011.